IN THE CLAIMS

Claims 1, 7,19, 21, 32-36, 38, 39, and 41 are amended herein. Claim 31 is cancelled herein. Claims 47-49 have been added. All pending claims are reproduced below.

1. (Amended) A method for receiving an output signal from one of a first <u>wireless</u> communication <u>device</u> system operating in a first frequency range or a second <u>wireless</u> communication <u>device</u> system operating in a second frequency range, the method comprising:

receiving the output signal at a processor;

identifying whether the first <u>wireless</u> communication <u>device</u> system or the second <u>wireless</u> communication <u>device</u> system sent the output signal based on information included in the output signal; and

implementing a protocol that corresponds to the identified <u>wireless</u> communication <u>device</u> system, wherein in response to identifying the first <u>wireless</u> communication <u>device</u> system, a first protocol is implemented, and in response to identifying the second <u>wireless</u> communication <u>device</u> system, a second protocol is implemented.

- 1 2. (Original) The method of claim 1 wherein the output signal is one of a baseband signal and a broadband signal.
- 1 3. (Previously Amended) The method of claim 1 wherein the first frequency range is from about 100 KHz to about 1 GHz.
- 1 4. (Previously Amended) The method of claim 1 wherein the first frequency range is from about 26 MHz to about 28 MHz, or from about 800 MHz to about 1 GHz.
- 1 5. (Previously Amended) The method of claim 1 wherein the second frequency range is 2 from about 1 GHz to about 10 GHz.
- 6. (Previously Amended) The method of claim 1 wherein the second frequency range is from about 1.8 GHz to about 2.0 GHz, or from about 2 GHz to about 4 GHz.

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1	7. (Amended) The method of claim I wherein the processor has a first process for detecting		
2	and processing an output signal from the first wireless communication device system, and a		
3	second process for detecting and processing an output signal from the second wireless		
.4	communication device system.		
1	8. (Original) The method of claim 1 further comprising:		
2	decoding a set of MAC information associated with the output signal.		
1	9. (Original) The method of claim 1 further comprising:		
2	decoding and formatting data associated with the output signal.		
1	10. (Previously Amended) The method of claim 1 further comprising:		
2	verifying data associated with the output signal is valid; and		
3	responsive to the data being valid, transmitting the data to a data port that is		
• 4	operatively coupled to the processor.		
. 1	17. (Previously Amended) The method of claim 1 wherein the method is implemented by at		
2	least one of software, firmware, or hardware.		
1	19. (Amended) A system for receiving an output signal from one of a first wireless		
2	communication device system operating in a first frequency range or a second wireless		
3	communication device system operating in a second frequency range, the system comprising:		
4	a processor for receiving the output signal, wherein the processor is adapted to:		
5	identify whether the first wireless communication device system or the		
6	second wireless communication device system sent the output		
7	signal based on information included in the output signal; and		
8	implement a protocol that corresponds to the identified wireless		
9	communication device system, wherein in response to identifying		
10	the first wireless communication device system, a first protocol is		
11	implemented, and in response to identifying the second wireless		
12	communication device system, a second protocol is implemented.		

- 1 20. (Previously Amended) The system of claim 19 wherein the processor has access to a
- 2 memory that is configured to receive the output signal.
- 1 21. (Amended) The system of claim 20 wherein the memory has a first section and a second
- 2 section, wherein the first section has a first process for detecting and processing an output signal
- 3 from the first wireless communication device system, and the second section has a second
- 4 process for detecting and processing an output signal from the second wireless communication
- 5 device system.
- 1 22. (Original) The system of claim 19, wherein the output signal is one of a baseband signal and a broadband signal.
- 1 23. (Previously Amended) The system of claim 19 wherein the first frequency range is from
- 2 about 100 KHz to about 1 GHz.
- 1 24. (Previously Amended) The system of claim 19 wherein the first frequency range is from
- about 26 MHz to about 28 MHz, or from about 800 MHz to about 1 GHz.
- 1 25. (Previously Amended) The system of claim 19 wherein the second frequency range is
- 2 from about 1 GHz to about 10 GHz.
- 1 26. (Previously Amended) The system of claim 19 wherein the second frequency range is
- 2 from about 1.8 GHz to about 2.0 GHz, or from about 2 GHz to about 4 GHz.
- 1 27. (Previously Amended) The system of claim 19 wherein the processor is adapted to:
- decode a set of MAC information associated with the output signal.
- 1 28. (Previously Amended) The system of claim 19 wherein the processor is adapted to:
- 2 decode and format data associated with the output signal.
- 1 29. (Previously Amended) The system of claim 19 wherein the processor is adapted to:
- 2 verify data associated with the output signal is valid; and
- responsive to the data being valid, transmit the data to a data port that is operatively
- 4 coupled to the processor.



1	31.	(Cancel)

- 1 32. (Amended) The system of claim 19 wherein the processor is a component of one of the
- 2 first wireless communication device system or the second wireless communication device
- system. 3

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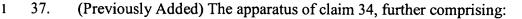
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- 1 33. (Amended) A computer readable medium comprising a plurality of instructions, which
- when executed by a processor, cause the processor to perform the steps of: 2
 - identifying whether a first wireless communication device system operating in a first frequency range or a second wireless communication device system operating in a second frequency range sent an output signal received by the processor, wherein the identifying is based on information included in data packets comprising the output signal; and
 - implementing a protocol that corresponds to the identified wireless communication device system, wherein in response to identifying the first wireless communication device system, a first protocol is implemented, and in response to identifying the second wireless communication device system, a second protocol is implemented.
- 1 34. (Amended) A receiver apparatus for receiving wireless communications from a number 2 of wireless communication devices systems, the apparatus comprising:
 - a first I/O port for receiving communication information from a first wireless device of a first communication system operating in a first frequency range;
 - a second I/O port for receiving communication information from a second wireless device of a second communication system operating in a second frequency range; and
 - a processor for effecting upon received communication information a protocol that corresponds to one of the first or second wireless communication devices systems in response to determining which wireless communication device system sent the communication information.

- 35. (Amended) The apparatus of claim 34, further comprising:
- a third I/O port for receiving communication information from a second third wireless

 device of the first communication system operating in the first frequency

 range.
- 36. (Amended) The apparatus of claim 35, wherein the first <u>wireless</u> communication <u>device</u> system has a first communication channel for a wireless keyboard and <u>the third wireless</u> communication <u>device has</u> a second communication channel for a wireless mouse, and communication information from the wireless keyboard is received by the first I/O port, and communication information from the wireless mouse is received by the third I/O port.



- a data port operatively coupled to the processor for providing an interface between the apparatus and a host system.
- 1 38. (Amended) The apparatus of claim 34, wherein the communication information from the second wireless communication device of the second communication system is provided to the second I/O port by a media access control module associated with the second wireless communication device system.
- 1 39. (Amended) The apparatus of claim 34, further including a memory operatively coupled to
 2 the processor, the memory storing a set of instructions that, when executed by the processor,
 3 cause the processor to determine from which <u>wireless</u> communication <u>device</u> system
 4 communication information was received, and to effect a protocol corresponding to that <u>wireless</u>
 5 communication device system.
- 1 40. (Previously Added) The apparatus of claim 34, wherein the I/O ports and the processor are included in a microcontroller unit.
- 1 41. (Amended) The apparatus of claim 34 wherein the I/O ports and the processor are components of one of the first <u>wireless</u> communication <u>device</u> system or the second <u>wireless</u> communication device system.



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- 1 42. (Previously Added) The apparatus of claim 34 wherein the output signal is one of a
- 2 baseband signal and a broadband signal.
- 1 43. (Previously Added) The apparatus of claim 34 wherein the first frequency range is from
- 2 about 100 KHz to about 1 GHz.
- 1 44. (Previously Added) The apparatus of claim 34 wherein the first frequency range is from
- about 26 MHz to about 28 MHz, or from about 800 MHz to about 1 GHz.



- 45. (Previously Added) The apparatus of claim 34 wherein the second frequency range is
- 2 from about 1 GHz to about 10 GHz.
- 1 46. (Previously Added) The apparatus of claim 34 wherein the second frequency range is
- from about 1.8 GHz to about 2.0 GHz, or from about 2 GHz to about 4 GHz.
- 1 47. (New) The method of claim 1 wherein the identifying includes determining a device
- 2 type.
- 1 48. (New) The method of claim 47, wherein the device type is one of a mouse, a keyboard,
- 2 or a cell phone.
- 1 49. (New) The method of claim 47, wherein in response to determining the type of the
- 2 wireless communications device to be a mouse, implementing the corresponding protocol
- 3 includes formatting payload data in the output signal as cursor position data.